

Appl. No. 09/744,267
 Docket No. CM1882
 Amdt. Dated March 23, 2009
 Reply to Office Action Dated December 23, 2008
 Customer No. 27752

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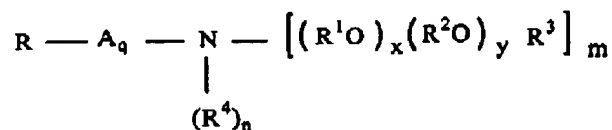
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A fabric care composition comprising:

- i)- from 5% to 10% of a nitrogen containing dye fixing agent,
- ii)- from 0.001 % to 20 % of a scum reducing agent comprising a polyoxyalkylene alkyl amine surface active agent having the formula



Wherein R is selected from C7-C21 linear alkyl, C7-C21 branched alkyl, C7-C21 linear alkenyl, C7-C21 branched alkenyl, and mixtures thereof, R¹ is ethylene, R² is selected from C3-C4 linear alkyl, C3-C4 branched alkyl, 1, 2 propylene, and mixtures thereof, and

iii)- a polyamino-functional polymer wherein said polymer comprises a polyamine backbone corresponding to the formula:



having a polyamine formula $\text{V}_{(n+1)}\text{W}_m\text{Y}_n\text{Z}$ or a polyamine backbone corresponding to the formula:



having a polyamine formula $\text{V}_{(n-k+1)}\text{W}_m\text{Y}_n\text{Y}'_k\text{Z}$, wherein k is less than or equal to n, said polyamine backbone has a molecular weight greater than 200 daltons, wherein

- i) V units are terminal units having the formula:

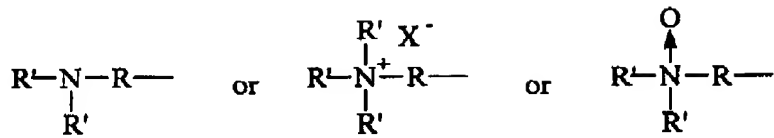
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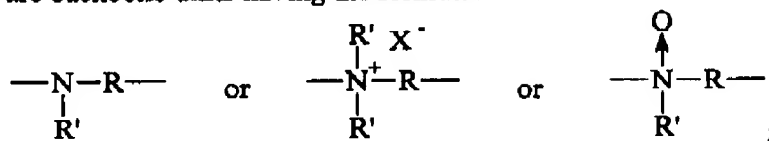
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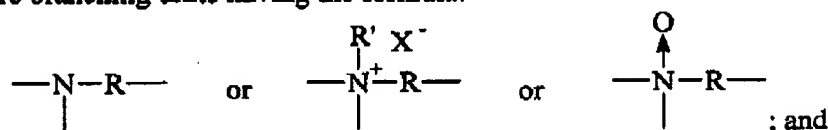
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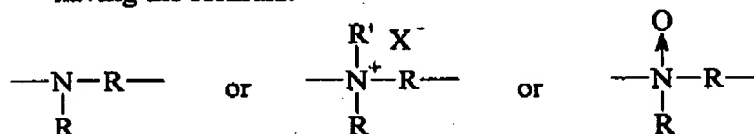
ii) W units are backbone units having the formula:



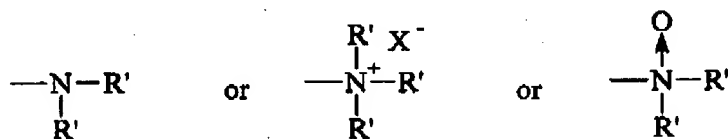
iii) Y units are branching units having the formula:



iv) Y' units are branch point for a backbone or branch ring having the formula:



v) Z units are terminal units having the formula:



wherein backbone linking R units are selected from the group consisting of C₂-C₁₂ alkylene, C₄-C₁₂ alkenylene, C₃-C₁₂ hydroxyalkylene, C₄-C₁₂ dihydroxy-alkylene, C₈-C₁₂ dialkylarylene, -(R¹O)_xR¹-, -(R¹O)_xR⁵(OR¹)_x-, -(CH₂CH(OR²)CH₂O)_z(R¹O)_yR¹(OCH₂CH(OR²)CH₂)_w-, -C(O)(R⁴)_tC(O)-, -CH₂CH(OR²)CH₂-, and mixtures thereof; wherein R¹ is selected from the group consisting of C₂-C₆ alkylene and mixtures thereof; R² is selected from the group consisting of hydrogen, -(R¹O)_xB, and mixtures thereof; R⁴ is selected from the group consisting of C₁-C₁₂ alkylene, C₄-C₁₂ alkenylene, C₈-C₁₂ arylalkylene, C₆-C₁₀ arylene, and mixtures thereof; R⁵ is selected from the group consisting of C₁-C₁₂ alkylene, C₃-C₁₂ hydroxyalkylene, C₄-C₁₂ dihydroxy-alkylene, C₈-C₁₂ dialkylarylene, -C(O)-, -C(O)NHR⁶NHC(O)-, -R¹(OR¹)-, -C(O)(R⁴)_tC(O)-, -CH₂CH(OH)CH₂-, -CH₂CH(OH)CH₂O(R¹O)_yR¹OCH₂CH(OH)CH₂-, and mixtures thereof; R⁶ is selected

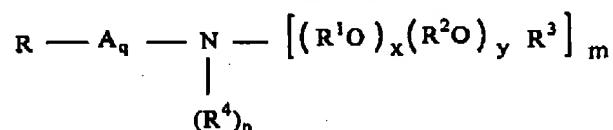
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from the group consisting of C₂-C₁₂ alkylene or C₆-C₁₂ arylene; R' units are selected from the group consisting of hydrogen, C₁-C₂₂ alkyl, C₃-C₂₂ alkenyl, C₇-C₂₂ arylalkyl, C₂-C₂₂ hydroxyalkyl, -(CH₂)_pCO₂M, -(CH₂)_qSO₃M, -CH(CH₂CO₂M)CO₂M, -(CH₂)_pPO₃M, -(R¹O)_xB, -C(O)R³, and mixtures thereof; B is selected from the group consisting of hydrogen, C₁-C₆ alkyl, -(CH₂)_qSO₃M, -(CH₂)_pCO₂M, -(CH₂)_q(CHSO₃M)CH₂SO₃M, -(CH₂)_q-(CHSO₂M)CH₂SO₃M, -(CH₂)_pPO₃M, -PO₃M, and mixtures thereof; R³ is selected from the group consisting of C₁-C₁₈ alkyl, C₇-C₁₂ arylalkyl, C₇-C₁₂ alkyl substituted aryl, C₆-C₁₂ aryl, and mixtures thereof; M is hydrogen or a water soluble cation in sufficient amount to satisfy charge balance; X is a water soluble anion; m has the value from 2 to 700; n has the value from 0 to 350; p has the value from 1 to 6, q has the value from 0 to 6; r has the value of 0 or 1; w has the value 0 or 1; x has the value from 1 to 100; y has the value from 0 to 100; z has the value 0 or 1, wherein the weight ratio of scum reducing agent to the sum of the polyamino-functional polymer and the dye fixing agents is from 0.05:1 to 2:1.

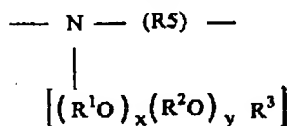
2. (Cancelled)

3. (Cancelled)

4. (Previously Presented) A composition according to Claim 1, wherein the polyoxyalkylene alkyl amine surface active agent has the formula:



wherein R is selected from C₇-C₂₁ linear alkyl, C₇-C₂₁ branched alkyl, C₇-C₂₁ linear alkenyl, C₇-C₂₁ branched alkenyl, and mixtures thereof; R¹ is ethylene; R² is selected from C₃-C₄ linear alkyl, C₃-C₄ branched alkyl, and mixtures thereof; R³ is selected from hydrogen, C₁-C₄ linear alkyl, C₃-C₄ branched alkyl, and mixtures thereof; R⁴ is selected from hydrogen, C₁-C₄ linear alkyl, C₃-C₄ branched alkyl, and mixtures thereof; A is



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R^5 is selected from $-(R^1O)_x(R^2O)_y$ unit, C_1 - C_{16} linear alkyl, C_1 - C_{16} branched alkyl, C_1 - C_{16} linear alkenyl, C_1 - C_{16} branched alkenyl, and mixtures thereof;

wherein the index m is 1 or 2, the index n is 0 or 1, provided that when m is equal to 1, n is equal to 1; and when m is 2 n is 0;

wherein the index x is from 0 to about 50, preferably from 1 to 25,

wherein the index y is from 0 to about 10;

wherein the index q is 0 or 1.

5. (Previously Presented) A composition according to Claim 4, wherein said index x is from 1 to 25.

6. (Previously Presented) A composition according to Claim 5, wherein said index m is equal to 2 and n is equal to 0.

7. (Cancelled)

8. (Previously Presented) A composition according to Claim 7, wherein said dye fixing agent is a cellulose reactive dye fixing agent.

9.-14. (Cancelled)

15. (Previously Presented) A composition according to Claim 1, wherein the weight ratio of the scum reducing agent to the sum of the polyamino-functional polymer and dye fixing agent is from 0.1:1 to 1:1.

16. (Previously Presented) A composition according to Claim 1, further comprising an ease of formulation solvent having a ClogP of from about 0.15 to about 0.64.

17. (Previously Presented) A composition according to Claim 16, wherein the ease of formulation solvent is selected from the group consisting of: mono-ols, C6 diols, C7 diols, octanediol isomers, butanediol derivatives, trimethylpentanediol isomers, ethylmethylpentanediol isomers, propyl pentanediol isomers, dimethylhexanediol isomers, ethylhexanediol isomers, methylheptanediol isomers, octanediol isomers, nonanediol

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isomers, alkyl glyceryl ethers, di(hydroxy alkyl) ethers, and aryl glyceryl ethers, aromatic glyceryl ethers, alicyclic diols and derivatives, C3C7 diol alkoxyated derivatives, aromatic diols, and unsaturated diols.

18. (Previously Presented) A composition according to Claim 16, wherein the ease of formulation solvent is selected from the group consisting of 1,2-Hexanediol, 2-Ethyl-1,3-hexanediol and 2,2,4-Trimethyl-1,3-pentanediol.

19. (Previously Presented) A composition according to Claim 16, wherein said ease of formulation solvent comprises an asymmetric solvent.

20. (Previously Presented) A composition according to Claim 19, wherein the composition is essentially clear.

21. (New) A composition according to Claim 1, wherein the R² of the polyoxyalkylene alkyl amine surface active agent is a 1,2-prolylene.

22. (New) A composition according to Claim 1, wherein the polyoxyalkylene alkyl amine surface active agent comprises a ratio of R¹ to R² from about 4 to about 12 ethylene units to about 1 to about 4 1,2-prolylene units.